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PUBLIC HEALTH REPORTS

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MARCH 13, 1914.

No. 11.

MALARIAL FEVERS.

PREVALENCE AND GEOGRAPHIC DISTRIBUTION IN SOUTH CAROLINA, GEORGIA, AND FLORIDA.

By R. H. VON EZDOFF, Surgeon, United States Public Health Service.

This study is based upon morbidity reports collected by means of reply postal cards addressed to all physicians in the States of South Carolina, Georgia, and Florida.

The postal cards were mailed each month and called for certain information for the months of August, September, October, and November, 1913, except in the State of Georgia, from which reports were received for the first three mentioned months. The replies averaged for the three States 15.71 per cent of the cards which reached the physicians.

The form of reply postal card used was as follows:

1. Does malarial fever prevail in your community?.....
2. How many cases have you treated during.....
Whites..... Colored.....
3. What types prevail?
(Tertian.) (Quartan.) (Estivo-autumnal.)
4. In how many was diagnosis confirmed microscopically?.....
(Tertian.) (Quartan.) (Estivo-autumnal.)
5. How many of your cases are chronic?.....
6. What number of cases occurred in children under 15 years of age?.....
7. Are any children undeveloped, mentally or physically, on account of chronic malaria?.....
8. Do mosquitoes prevail in your community? What species?
9. Are there any swamps or poorly drained lands in your community?.....
10. What prophylactic measures, if any, are being taken against malaria?.....

South Carolina.

The following table gives a general summary of the postal-card replies received:

	August.	September.	October.	November.
Number of cards mailed.....	1,275	1,275	1,275	1,275
Number of cards returned unclaimed.....	2	2	2	2
Number of replies received.....	392	231	191	136
Percentage of replies received.....	30.745	18.11	15.02	10.66
Number of counties represented in replies.....	43	40	41	39
Number of counties not heard from.....	1	4	3	5

	August.	September.	October.	November.
Number of towns or cities represented in replies.....	95	124	135	86
Number of cases of malaria reported.....	6,195	3,490	1,796	519
Whites.....	3,147	1,691	927	281
Colored.....	3,048	1,799	869	238
Average number of cases per physician reported.....	15.8	15.13	9.4	3.81
Number of cases of malaria confirmed microscopically.....	607	170	70	49
Tertian.....	415	117	42	27
Quartan.....	121	14	16	10
Estivo-autumnal.....	71	39	12	12
Number of chronic cases of malaria reported.....	762	408	267	119
Number of cases under 15 years of age.....	1,342	1,068	403	114
Number of physicians using microscope.....	79	40	20	19

GENERAL PREVALENCE.

Malarial-fever cases have been reported to exist in every county but one, namely, Jasper, from which no report was received for the four months covered by this report.

The following table gives the number of cases reported, by color, in the different counties:

Name of county.	August.		September.		October.		November.	
	White.	Colored.	White.	Colored.	White.	Colored.	White.	Colored.
Abbeville.....	50	91	23	28	20	15	6	0
Aiken.....	103	54	46	92	11	3	25	8
Anderson.....	46	12	8	11	3	0	4	0
Bamberg.....	49	22	13	11	(1)	(1)	7	4
Barnwell.....	87	123	19	16	23	13	.....	.....
Beaufort.....	7	31	10	20	4	9	0	2
Berkley.....	25	75	45	100	15	22	30	18
Calhoun.....	42	107	26	65	9	21	.....	.....
Charleston.....	23	87	20	207	3	36	9	13
Cherokee.....	52	1	23	0	.....	.....	0	0
Chester.....	33	74	3	8	30	23	4	1
Chesterfield.....	33	36	18	15	6	8	0	3
Clarendon.....	55	10	34	13	14	7	0	4
Colleton.....	88	61	(1)	(1)	4	6	(1)	(1)
Darlington.....	32	38	25	26	32	43	9	7
Dillon.....	38	25	19	25	11	5	.....	.....
Dorchester.....	26	40	35	39	7	9	3	0
Edgefield.....	28	39	9	9	6	6	0	5
Fairfield.....	56	83	16	30	33	33	12	20
Florence.....	71	74	129	75	11	17	15	3
Georgetown.....	269	279	147	113	78	47	8	9
Greenville.....	70	20	36	0	7	4	10	1
Greenwood.....	29	27	19	4	14	22	2	1
Hampton.....	122	103	10	10	72	85	.....	39
Horry.....	30	0	(1)	(1)	21	9	10	20
Jasper.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Kershaw.....	150	110	16	12	1	0	8	3
Lancaster.....	45	33	(1)	(1)	2	0	(1)	(1)
Laurens.....	69	52	10	4	35	22	18	10
Lee.....	16	11	0	0	5	0	(1)	(1)
Lexington.....	43	32	44	26	7	12	(1)	(1)
Marion.....	122	23	70	15	(1)	(1)	.....	.....
Marlboro.....	23	35	4	2	14	16	9	2
Newberry.....	92	97	6	3	54	88	12	19
Oconee.....	0	0	22	1	19	2	6	2
Orangeburg.....	170	145	230	330	109	102	2	3
Pickens.....	44	10	4	0	0	0	0	0
Richland.....	203	178	43	61	27	2	25	26
Saluda.....	25	19	27	13	18	9	11	4
Spartanburg.....	89	30	87	24	21	6	15	4
Sumter.....	234	448	62	143	13	48	4	4
Union.....	45	16	42	28	13	4	5	3
Williamsburg.....	204	279	217	160	28	34	.....	.....
York.....	59	18	74	60	127	81	5	0
Total.....	3,147	3,048	1,691	1,799	927	869	281	238

¹ No report.

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It also appears that malarial fevers prevailed equally during the months of August and September, subsiding in October; for November there was about one-third of the number of cases that occurred in October.

TYPES OF INFECTION.

The tertian type of infection prevails. The number of counties in which the types of infection were reported are given in the following table:

Types.	Counties.			
	August.	September.	October.	November.
Tertian.....	2	6	10	6
Quartan.....	0	0	0	1
Estivo-autumnal.....	0	1	1	3
Tertian and quartan.....	0	2	3	6
Tertian and estivo-autumnal.....	2	4	2	4
Quartan and estivo-autumnal.....	0	0	1	0
Tertian, quartan, and estivo-autumnal.....	38	25	21	14
Not stated.....	1	1	2	3
None.....	0	1	1	2
No report.....	1	4	3	5
	44	44	44	44

The number of counties in which the types of infection were reported to have been confirmed microscopically during the four months were as follows:

Types.	Counties.			
	August.	September.	October.	November.
Tertian.....	5	8	3	2
Quartan.....	0	0	2	0
Estivo-autumnal.....	1	2	3	0
Tertian and quartan.....	4	3	3	2
Tertian and estivo-autumnal.....	4	5	3	3
Quartan and estivo-autumnal.....	0	0	0	1
Tertian, quartan, and estivo-autumnal.....	9	1	0	1
Not stated.....	0	1	1	2
None.....	20	20	26	28
No report.....	1	4	3	5
	44	44	44	44

The counties in which the different types have been reported during the four months are shown by symbols in the accompanying map No. 1.

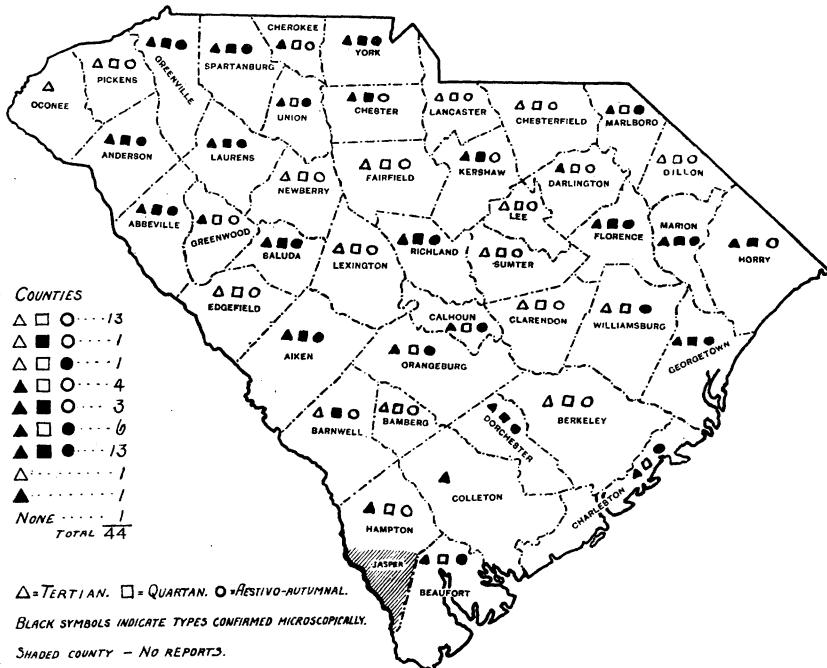
DIAGNOSIS CONFIRMED MICROSCOPICALLY.

The following table gives the number of physicians who report using the microscope, the number of counties represented, and the number of cases in which the diagnosis was confirmed microscopically, as shown in the reports received each month.

Months.	Physicians.	Counties.	Cases.
August.....	79	23	607
September.....	40	20	170
October.....	20	15	70
November.....	19	11	49

MAP NO. 1.—TYPES OF INFECTION REPORTED.

SOUTH CAROLINA



CHRONIC MALARIA.

A summary of the reports made of chronic cases of malaria each month is here given:

Months.	Physicians.	Counties.	Cases.
August.....	159	39	762
September.....	79	33	408
October.....	53	30	267
November.....	29	21	119

CHILDREN UNDER 15 YEARS OF AGE.

There was a total of 12,000 cases of malaria in the State for the four months, of which number 2,927 were reported to have occurred in children under 15 years of age. This represents 24.39 per cent of the total number of cases reported.

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CHILDREN UNDEVELOPED, MENTALLY AND PHYSICALLY.

For the month of August, 72 physicians from 32 counties; for September, 37 physicians from 22 counties; for October, 29 physicians from 19 counties; and for November, 13 physicians from 10 counties, stated that there were children undeveloped, mentally and physically, on account of chronic malaria.

MOSQUITOES.

The kinds of mosquitoes reported as prevailing in the various counties were as follows:

Kind.	Counties.			
	August.	September.	October.	November.
Anopheles.....	12	11	10	11
Culex.....	1	0	2	1
Stegomyia.....	0	0	0	1
Anopheles and Culex.....	24	16	17	7
Anopheles and Stegomyia.....	0	0	0	0
Culex and Stegomyia.....	0	0	0	0
Anopheles, Culex, and Stegomyia.....	4	4	2	1
Unknown.....	2	8	9	16
Not stated.....	0	0	1	1
None.....	0	1	0	1
No report.....	1	4	3	5
	44	44	44	44

SWAMPS AND POORLY DRAINED LANDS.

Swamps and poorly drained lands were reported to exist in every county in the State, from which reports were received.

PROPHYLACTIC MEASURES.

One or more of the following prophylactic measures were reported as being in use in every county of the State, but no systematic eradication measures were reported as being employed in any place: Oiling, screening, drainage, quinine, mosquito nets, destruction of breeding places, general sanitation.

Florida.

The following table gives a general summary of the postal card replies received:

	August.	September.	October.	November.
Number cards mailed.....	974	956	956	956
Number of cards returned unclaimed.....	22	18	4	8
Number of replies received.....	298	166	176	136
Percentage of replies received.....	30.59	17.36	16.31	14.22
Number of counties represented in replies.....	49	43	41	38
Number of counties not heard from.....	1	7	9	12
Number of towns or cities represented in replies.....	159	97	98	87
Number of cases of malaria reported.....	4,498	2,141	1,702	849
Whites.....	2,867	1,338	1,044	530
Colored.....	1,631	803	658	319

	August.	September.	October.	November.
Average number of cases per physician reported.....	15.09	12.9	9.67	6.24
Number of cases of malaria confirmed microscopically.....	691	322	199	137
Tertian.....	467	281	115	83
Quartan.....	76	16	25	26
Estivo-autumnal.....	148	25	59	28
Number of chronic cases of malaria reported.....	717	542	285	194
Number of cases under 15 years of age.....	1,145	609	490	216
Number of physicians using microscope.....	93	53	43	28

GENERAL PREVALENCE.

Malarial fever cases have been reported to exist in every county of Florida except Liberty County, and from this county no report was received.

The following table gives the number of cases reported each month, by color, in the different counties:

Name of county.	August.		September.		October.		November.	
	White.	Colored.	White.	Colored.	White.	Colored.	White.	Colored.
Alachua.....	191	121	45	71	182	131	10	10
Baker.....	20	0	(1)	(1)	(1)	(1)	(1)	(1)
Bay.....	50	18	4	0	12	8		
Bradford.....	21	6	23	26	5	0		
Brevard.....	0	0	2	2	0	0		
Calhoun.....	0	0	45	15	48	67	42	31
Citrus.....	9	7	23	10	75	30	10	15
Clay.....	0	0	15	5	(1)	(1)	(1)	(1)
Columbia.....	0	9	16	14	3	3	3	2
Dade.....	31	1	27	0	6	1	6	0
Desoto.....	120	19	56	18	12	3	65	17
Duval.....	96	54	84	20	20	3	52	15
Escambia.....	28	5	37	3	21	4	32	1
Franklin.....	20	0	(1)	(1)	(1)	(1)	(1)	(1)
Gadsden.....	87	73	15	10	5	7	8	0
Hamilton.....	17	18	31	20	28	31	7	5
Hernando.....	37	70	(1)	(1)	12	18	(1)	(1)
Hillsboro.....	142	39	39	7	42	26	9	0
Holmes.....	10	2	72	24	24	14	8	6
Jackson.....	71	51	154	135	22	23	59	41
Jefferson.....	47	24	5	2	(1)	(1)	(1)	(1)
Lafayette.....	98	14	9	4	38	0	26	0
Lake.....	18	15	0	0	0	0	0	0
Lee.....	27	5	10	6	23	4	1	
Leon.....	16	0	12	4			15	35
Levy.....	180	255	(1)	(1)	43	28		
Liberty.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Madison.....	51	69	17	3	81	70	13	2
Manatee.....	79	63	79	48	63	28	3	0
Marion.....	232	168	25	45	48	28	23	26
Monroe.....	3	9	3	1	0	0	0	
Nassau.....	316	198	3	1	1	2	0	1
Orange.....	39	35	14	57	4	3	13	10
Osceola.....	11	0	6	0	0	0	4	26
Palm Beach.....	40	25	25	10	0	0	0	16
Pasco.....	15	9	0	0	29	9	0	0
Pinellas.....	23	5	4	0	3	0	7	0
Polk.....	61	34	203	80	20	20	16	10
Putman.....	11	5	10	17	21	14	13	1
St. John.....	56	28	20	30	9	9	1	0
St. Lucia.....	17	15	38	25	28	5	5	3
Santa Rosa.....	27	3	9	5	(1)	(1)	(1)	1
Seminole.....	19	22	1	0			2	
Sumter.....	12	0	55	2	(1)	(1)		
Suwanee.....	293	85	74	43	70	45	44	27
Taylor.....	30	20	(1)	(1)			(1)	(1)
Volusia.....	102	47	19	14	23	14	14	7
Wakulla.....	12	8	(1)	(1)	19	10	(1)	(1)
Walton.....	24	0			4	0	6	6
Washington.....	53	35	7	8	(1)	(1)	13	5
Total.....	2,867	1,631	1,338	803	1,044	658	530	319

¹ No report.

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It appears that malarial fevers prevailed most in August, diminishing during the succeeding months. This is shown by the average number of cases per physician reporting, which was 15.09 for August, 12.9 for September, 9.67 for October, and 6.24 for November.

TYPES OF INFECTION.

Of all cases reported for the period 70.1 per cent were tertian, 10.6 per cent quartan, and 19.3 per cent estivo-autumnal.

The number of counties in which the types of infection were reported are given in the following table:

Types.	Counties.			
	August.	September.	October.	November.
Tertian.....	4	5	7	8
Quartan.....	0	0	0	0
Estivo-autumnal.....	0	1	0	2
Tertian and quartan.....	2	2	0	3
Tertian and estivo-autumnal.....	10	7	10	7
Quartan and estivo-autumnal.....	1	0	0	0
Tertian, quartan, and estivo-autumnal.....	31	23	19	14
Not stated.....	0	3	0	1
None.....	1	2	5	3
No report.....	1	7	9	12
	50	50	50	50

The number of counties in which the types of infection were reported to have been confirmed microscopically during the four months were as follows:

Types.	Counties.			
	August.	September.	October.	November.
Tertian.....	10	12	1	7
Quartan.....	1	2	0	0
Estivo-autumnal.....	3	0	6	2
Tertian and quartan.....	0	0	1	0
Tertian and estivo-autumnal.....	9	4	7	3
Quartan and estivo-autumnal.....	2	0	0	0
Tertian, quartan, and estivo-autumnal.....	9	4	6	4
None.....	14	21	19	20
Not stated.....	1	0	1	2
No report.....	1	7	9	12
	50	50	50	50

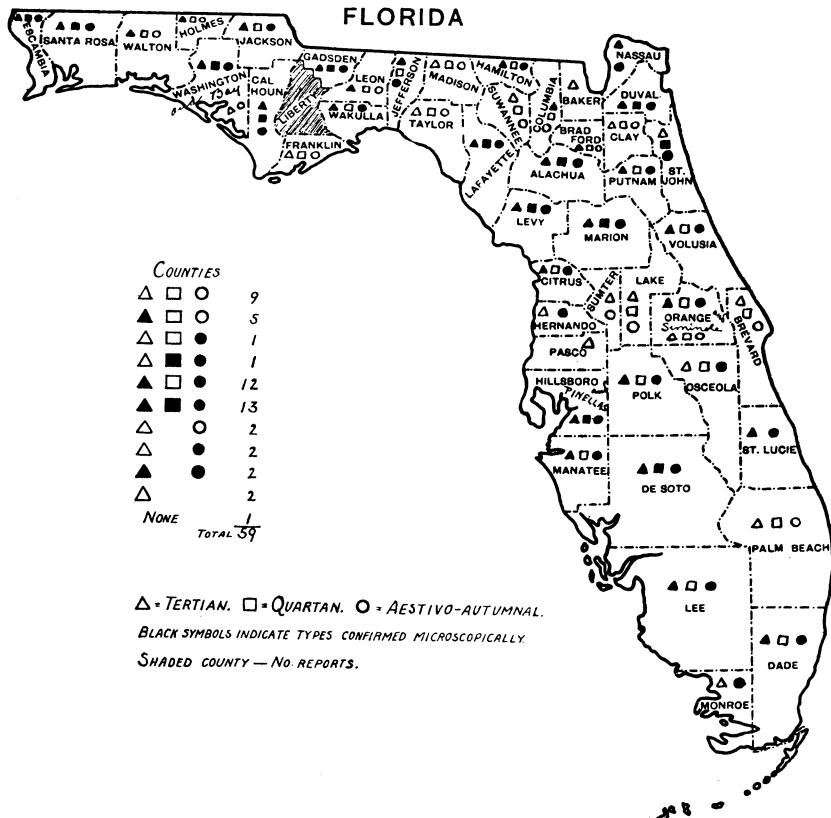
The counties in which the different types have been reported during the four months are shown by symbols in the accompanying map No. 2.

DIAGNOSIS CONFIRMED MICROSCOPICALLY.

The following table gives the number of physicians who report using the microscope, the number of counties represented, and the number of cases in which the diagnosis was confirmed microscopically, as shown in the reports received each month.

Months.	Physicians.	Counties.	Cases.
August.....	93	35	691
September.....	53	22	322
October.....	43	22	199
November.....	28	18	137

MAP NO. 2.—TYPES OF INFECTION REPORTED.



CHRONIC MALARIA.

A summary of the reports made of chronic cases of malaria each month is here given:

Months.	Physicians.	Counties.	Cases.
August.....	132	42	717
September.....	67	31	542
October.....	55	29	285
November.....	40	22	194

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CHILDREN UNDER 15 YEARS OF AGE.

There was a total of 9,190 cases of malaria reported in the State for the four months, of which number 2,460 were said to have occurred in children under 15 years of age. This represents 26.76 per cent of the total number of cases reported.

CHILDREN UNDEVELOPED, MENTALLY AND PHYSICALLY.

For the month of August, 85 physicians in 37 counties; for September, 59 physicians in 25 counties; for October, 36 physicians in 20 counties, and for November, 27 physicians in 21 counties, stated that there were children undeveloped, mentally and physically, on account of chronic malaria.

MOSQUITOES.

The kinds of mosquitoes reported as prevailing in the various counties were as follows:

Kind.	August.	September.	October.	November.
Anopheles.....	11	9	11	9
Culex.....	0	2	1	3
Stegomyia.....	0	0	0	1
Anopheles and Culex.....	11	6	14	6
Anopheles and Stegomyia.....	0	1	1	0
Culex and Stegomyia.....	1	3	2	1
Anopheles, Culex, and Stegomyia.....	14	6	3	2
Unknown.....	11	14	8	15
Not stated.....	1	1	0	1
None.....	0	1	1	0
No report.....	1	7	9	12
	50	50	50	50

SWAMPS AND POORLY DRAINED LANDS.

Swamps and poorly drained lands were reported to exist in every county in the State, from which reports were received.

PROPHYLACTIC MEASURES.

One or more of the following prophylactic measures were mentioned as being in use in every county of the State, except in the counties of Baker and Wakulla, in which counties no measures were reported: Oiling, screening, drainage, quinine, mosquito nets, destruction of breeding places, general sanitation, education.

No systematic eradication measures were reported as being employed in any place.

Georgia.

The following table gives a general summary of the postal card replies received:

	August.	September.	October.
Number of cards mailed.....	3,000	3,000	3,000
Number of cards returned unclaimed.....	38	59	8
Number of replies received.....	502	296	286
Percentage of replies received.....	16.73	9.86	9.53
Number of counties represented in replies.....	126	107	116
Number of counties not heard from.....	22	41	32
Number of towns or cities represented in replies.....	271	183	233
Number of cases of malaria reported.....	4,824	2,468	2,533
Whites.....	2,818	1,491	1,580
Colored.....	2,006	977	953
Average number of cases per physician reported.....	9.59	8.34	8.85
Number of cases of malaria confirmed microscopically.....	630	252	328
Tertian.....	397	172	194
Quartan.....	100	15	51
Estivo-autumnal.....	133	65	83
Number of chronic cases of malaria reported.....	668	299	370
Number of cases under 15 years of age.....	1,260	735	591
Number of physicians using microscope.....	112	43	47

GENERAL PREVALENCE.

Malarial fever cases have been reported to exist in every county from which reports were received except Gilmer and Upson Counties, from which all reports were in the negative. No reports were received from Charlton, Chattahoochee, Clinch, Echols, Liberty, Lumpkin, McIntosh, and Union for the three months covered by this report.

The following table gives the number of cases reported, by color, in the different counties:

Name of county.	August.		September.		October.	
	White.	Colored.	White.	Colored.	White.	Colored.
Appling.....	12	8	(1)	(1)	5	(1) 0
Baker.....	(1)	(1)	16	2	(1)	3
Baldwin.....	12	0	15	0	10	0
Banks.....	65	35	15	0	8	0
Bartow.....	77	9	17	3	(1)	(1)
Ben Hill.....	5	3	13	0	16	11
Berrien.....	74	40	58	28	2	4
Bibb.....	69	21	77	27	4	6
Bleckley.....			8	12		
Brooks.....	0	49	20	36	30	10
Bryan.....	(1)	(1)	(1)	(1)	2	2
Bulloch.....	9	3	8	5	9	3
Burke.....	40	80	30	70	45	35
Butts.....	2	2	8	0	0	0
Calhoun.....	(1)	(1)	7	13	15	33
Camden.....	8	4	(1)	(1)	(1)	(1)
Campbell.....	0	0	(1)	(1)	1	0
Carroll.....	21	10	9	0	6	4
Catoosa.....	13	3	(1)	(1)	10	2
Charlton.....	(1)	(1)	(1)	(1)	(1)	(1)
Chatham.....	80	15	25	3	5	3
Chattahoochee.....	(1)	(1)	(1)	(1)	3	0
Chattooga.....	15	2	(1)	(1)	1	0
Cherokee.....	0	0	0	0	1	0
Clarke.....	7	5	6	1	0	0
Clay.....	4	8	6	6	(1)	(1)
Clayton.....	7	5	1	0	4	3

¹ No report.

Name of county.	August.		September.		October.	
	White.	Colored.	White.	Colored.	White.	Colored.
Clinch.....	(1)	(1)	(1)	(1) 0	(1)	(1) 4
Cobb.....	7	1	4	0	0	4
Coffee.....	78	25	49	18	15	4
Colquitt.....	5	2	6	0	45	10
Columbia.....	1	2	1	1	12	12
Coweta.....	4	0	0	-----	7	10
Crawford.....	1	0	(1)	(1)	(1)	(1)
Crisp.....	21	14	(1)	(1)	(1)	(1)
Dade.....	3	5	(1)	(1)	(1)	(1)
Dawson.....	0	0	0	0	2	0
Decatur.....	302	461	177	145	25	23
Dekalb.....	0	0	6	5	1	0
Dodge.....	17	5	-----	-----	140	80
Dooly.....	10	5	23	4	(1)	(1)
Dougherty.....	9	17	3	5	37	11
Douglas.....	(1)	(1)	-----	-----	0	0
Early.....	20	18	(1)	(1)	55	30
Echols.....	(1)	(1)	(1)	(1)	(1)	(1)
Effingham.....	(1)	(1)	(1)	(1)	2	0
Elbert.....	31	25	14	5	37	15
Emanuel.....	23	9	4	2	9	15
Fannin.....	(1)	(1)	0	0	0	0
Fayette.....	9	1	(1)	(1)	(1)	(1)
Floyd.....	113	34	8	4	31	14
Forsyth.....	0	0	(1)	(1)	(1)	(1)
Franklin.....	68	28	20	16	17	14
Fulton.....	70	6	21	13	8	4
Gilmer.....	0	0	0	0	0	0
Glascock.....	23	8	(1)	(1)	-----	-----
Glynn.....	15	5	-----	-----	3	0
Gordon.....	30	10	35	5	(1)	(1)
Grady.....	12	5	4	2	(1)	(1)
Greene.....	8	15	0	0	1	0
Gwinnett.....	2	0	0	0	5	3
Habersham.....	0	0	6	0	0	0
Hall.....	13	2	0	0	0	0
Hancock.....	8	10	0	0	(1)	(1)
Harrison.....	18	1	15	5	0	0
Harris.....	-----	-----	1	0	0	0
Hart.....	2	0	0	0	0	0
Heard.....	(1)	(1)	(1)	(1)	0	0
Henry.....	17	7	2	2	0	0
Houston.....	45	35	22	23	-----	-----
Irwin.....	40	10	52	36	75	26
Jackson.....	145	65	91	29	78	29
Jasper.....	10	10	(1)	(1)	4	0
Jeff Davis.....	90	27	-----	-----	-----	-----
Jefferson.....	10	5	48	44	16	25
Jenkins.....	31	69	4	6	26	17
Johnson.....	18	11	14	6	(1)	(1)
Jones.....	5	3	0	0	4	6
Laurens.....	25	15	(1)	(1)	9	1
Lee.....	(1)	(1)	15	45	10	12
Liberty.....	(1)	(1)	(1)	(1)	(1)	(1)
Lincoln.....	10	2	(1)	(1)	(1)	(1)
Lowndes.....	44	18	20	6	159	51
Lumpkin.....	(1)	(1)	(1)	(1)	(1)	(1)
McDuffle.....	5	10	(1)	(1)	-----	-----
McIntosh.....	(1)	(1)	(1)	(1)	(1)	(1)
Macon.....	57	63	(1)	(1)	38	54
Madison.....	18	7	-----	-----	(1)	(1)
Marion.....	(1)	(1)	-----	-----	(1)	(1)
Meriwether.....	13	7	2	1	2	0
Miller.....	40	10	25	15	20	10
Milton.....	5	0	(1)	(1)	0	0
Mitchell.....	26	60	130	69	7	2
Monroe.....	7	8	(1)	(1)	0	0
Montgomery.....	39	22	(1)	(1)	27	12
Morgan.....	-----	-----	-----	-----	2	3
Murray.....	0	0	1	0	0	0
Muscogee.....	45	2	15	9	(1)	(1)
Newton.....	1	0	0	2	0	0
Oconee.....	0	12	(1)	(1)	-----	-----
Oglethorpe.....	2	1	4	0	5	14
Paulding.....	-----	-----	(1)	(1)	(1)	(1)
Pickens.....	1	0	3	0	0	0
Pierce.....	4	0	6	4	0	0
Pike.....	5	4	12	8	4	6
Polk.....	44	7	13	2	9	0
Pulaski.....	7	0	8	2	8	10

¹ No report.

Name of county.	August.		September.		October.	
	White.	Colored.	White.	Colored.	White.	Colored.
Putnam.....						
Quitman.....	(1)	(1)	(1)	(1)	30	45
Rabun.....					0	0
Randolph.....	12	31	8	12	5	7
Richmond.....	36	59	40	39	3	2
Rockdale.....	(1)	(1)	(1)	(1)	8	3
Schley.....	5	2	3	1	(1)	(1)
Screveen.....	4	14	22	16	119	122
Spalding.....	3	0	0	0	28	0
Stephens.....	29	6	15	0	29	4
Stewart.....	17	28	10	22	4	5
Sumter.....	16	19	20	30	11	14
Talbot.....	0	0	(1)	(1)	0	0
Taliaferro.....	14	21	2	1	3	4
Tattnall.....	7	4	1	1	6	0
Taylor.....	(1)	(1)	6	0	22	16
Telfair.....	23	17	19	6	20	4
Terrell.....	51	99	5	15	1	1
Thomas.....	133	77	27	8	42	15
Tift.....			(1)	(1)	0	0
Toombs.....	5	4	14	8	2	0
Towns.....	(1)	(1)	0	0	0	0
Troup.....	10	0	6	0	4	0
Turner.....	(1)	(1)	(1)	(1)		
Twigg.....	22	7	4	2	7	3
Union.....	(1)	(1)	(1)	(1)	(1)	(1)
Upson.....	0	0	0	0	0	0
Walker.....	13	0	12	0	20	2
Walton.....	2	0	1	0	6	0
Ware.....	27	6	2	0	3	1
Warren.....	0	0	5	2	1	0
Washington.....	3	2	32	46	8	7
Wayne.....	18	24			13	17
Webster.....	23	10	12	16	14	9
Wheeler.....	8	4	8	0	(1)	(1)
White.....	0	0	(1)	(1)	(1)	(1)
Whitfield.....	17	1	(1)	(1)	(1)	(1)
Wilcox.....	40	26	4	2	27	13
Wilkes.....	23	27	(1)	(1)		
Wilkinson.....	2	3	1	2	10	10
Worth.....	3	9	4	3	(1)	(1)
Total.....	2,818	2,006	1,491	977	1,580	953

¹ No report.

It is evident that the disease prevails mainly in the southern portion of the State.

TYPES OF INFECTION.

The tertian type of infection prevails. The number of counties in which the types of infection were reported are given in the following table:

Types.	Counties.		
	August.	September.	October.
Tertian.....	33	29	26
Quartan.....	2	3	1
Estivo-autumnal.....	2	3	1
Tertian and quartan.....	9	10	7
Tertian and estivo-autumnal.....	23	19	16
Quartan and estivo-autumnal.....	0	1	1
Tertian, quartan, and estivo-autumnal.....	41	21	37
None.....	0	18	21
Not stated.....	16	3	6
No report.....	22	41	32
Total.....	148	148	148

March 13, 1914

The number of counties in which the types of infection were reported to have been confirmed microscopically during the three months were as follows:

Types.	Counties.		
	August.	September.	October.
Tertian.....	13	10	10
Quartan.....	2	2	0
Estivo-autumnal.....	6	5	4
Tertian and quartan.....	4	2	3
Tertian and estivo-autumnal.....	11	9	6
Quartan and estivo-autumnal.....	0	0	1
Tertian, quartan, and estivo-autumnal.....	11	1	4
None.....	76	78	78
Not stated.....	3	0	10
No report.....	22	41	32
Total	148	148	148

The counties in which the different types have been reported are shown by symbols in the accompanying map, No. 3.

DIAGNOSIS CONFIRMED MICROSCOPICALLY.

The following table gives the number of physicians who report using the microscope, the number of counties represented, and the number of cases in which the diagnosis was confirmed microscopically, as shown in the reports received each month:

Months.	Physi-cians.	Counties.	Cases.
August.....	112	50	630
September.....	43	29	252
October.....	47	38	328

CHRONIC MALARIA.

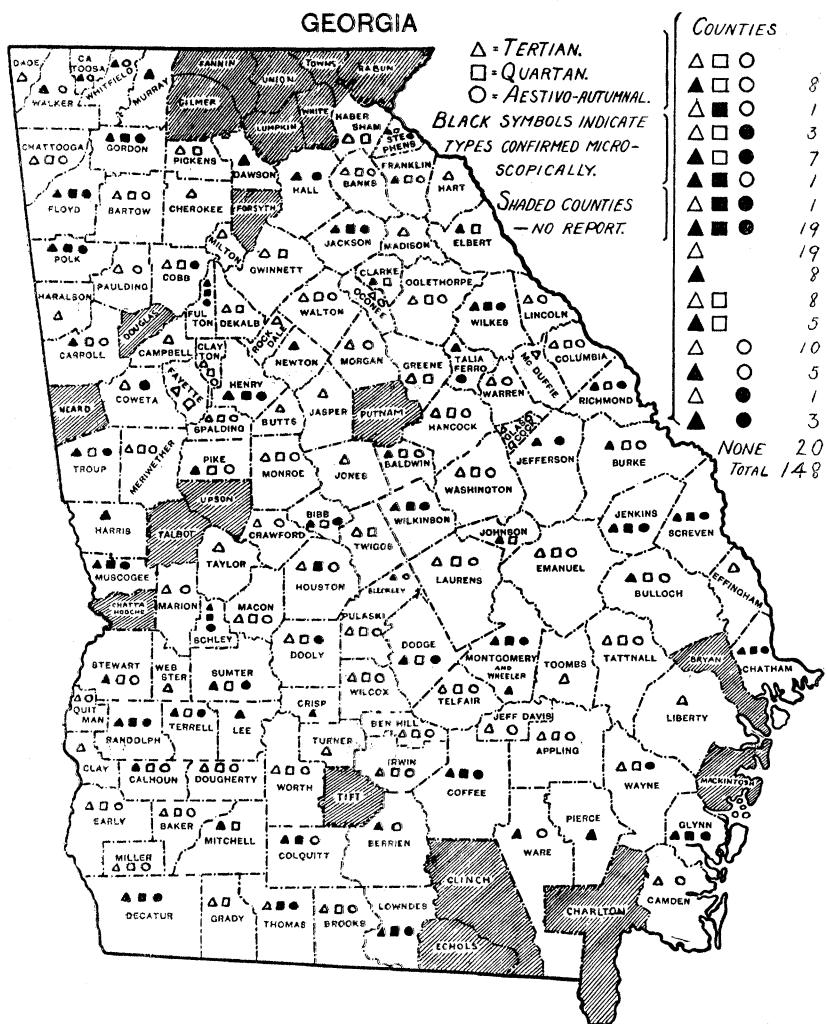
A summary of the reports made of chronic cases of malaria each month is here given:

Months.	Physi-cians.	Counties.	Cases.
August.....	175	81	668
September.....	82	52	299
October.....	95	63	370

CHILDREN UNDER 15 YEARS OF AGE.

There was a total of 9,825 cases of malaria reported in the State for the three months, of which number 2,586 were reported to have occurred in children under 15 years of age. This represents 26.33 per cent of the total number of cases reported.

MAP NO. 3.—TYPES OF INFECTION REPORTED.



CHILDREN UNDEVELOPED, MENTALLY AND PHYSICALLY.

For the month of August, 73 physicians in 48 counties; for September, 43 physicians in 34 counties; and for October, 51 physicians in 36 counties stated that there were children undeveloped, mentally and physically, on account of chronic malaria.

MOSQUITOES.

The kinds of mosquitoes reported as prevailing in the various counties were as follows:

March 13, 1914

Kind.	Counties.		
	August.	September.	October.
Anopheles.....	19	14	21
Culex.....	9	6	10
Stegomyia.....	1	1	0
Anopheles and Culex.....	35	17	24
Anopheles and Stegomyia.....	0	1	1
Culex and Stegomyia.....	0	0	0
Anopheles, Culex, and Stegomyia.....	7	1	2
Unknown.....	46	52	40
None.....	7	10	16
Not stated.....	2	5	2
No report.....	22	41	32
	148	148	148

SWAMPS AND POORLY DRAINED LANDS.

Swamps and poorly drained lands were reported to exist in every county in the State except in the counties of Cherokee, Fannin, Hart, Jasper, Towns, Turner, and Upson, from which counties all reports received were negative.

PROPHYLACTIC MEASURES.

Oiling, screening, drainage, quinine, mosquito nets, destruction of breeding places, general sanitation or education were prophylactic measures reported as being in use in some form and to some degree in every county in the State, except in the following:

Baker.	Fayette.	Meriwether.
Burke.	Franklin.	Milton.
Butts.	Gilmer.	Paulding.
Campbell.	Glascock.	Pickens.
Catoosa.	Gordon.	Rabun.
Dawson.	Greene.	Rockdale.
DeKalb.	Hancock.	Schley.
Dodge.	Haralson.	Stephens.
Douglas.	Jasper.	Towns.
Effingham.	Jeff Davis.	Ware.
Elbert.	Lincoln.	Wheeler.
Emanuel.	Madison.	Worth.
Fannin.	Marion.	

AMEBIC DYSENTERY.

REPORT OF A CASE APPARENTLY CURED WITH NEOSALVARSAN.

By GEORGE W. WHEELER, Acting Assistant Surgeon, United States Public Health Service.

The patient was a German 23 years old. His occupation was that of a seaman, and at the time of his application for relief he was a member of the crew of a revenue cutter with headquarters at the port of Wilmington, N. C. His family history showed nothing of